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TITLE : PRODUCTION OF POLYCYCLODEXTRIN BEADS

ABSTRACT : PURPOSE: Cyclodextrin of such a high molecular weight as it does not dissolve in epichlorohydrin is dispersed in liquid paraffin and made into an insoluble high molecular weight substance by adding epichlorohydrin at a specific temperature, thus producing the titled colorless and clear beads.

CONSTITUTION: Cyclodextrin such as α -cyclodextrin is mixed with water and sodium hydroxide, vigorously stirred usually at 200-500rpm at 40-50°C, while epichlorohydrin is dropped for 30min to 1hr to make polycyclodextrin of high molecular weight (containing more than 50% of dextrans of over 10,000mol.wt.). Then, foams are removed, the product is uniformly dispersed in liquid paraffin, combined with epichlorohydrin and the mixture is stirred usually for 30min to 1hr, as the temperature is kept at 40-50°C. The product is rinsed with hexane, acetone and distilled water in turn and dried to produce polycyclodextrin beads.

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